

Matthew Senick

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EXPERIENCE

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- Business Process Data Scientist (Strategic Projects)** Jul 2022 - Present
StandardAero *Winnipeg, MB*
- Spearheaded development of a Monte Carlo simulation that assessed risk distributions for quoting incoming engine contracts frequently exceeding \$2 million, impacting 1000+ employees and recognized with an intracompany award
 - Developed cross-functional Discrete Event Simulations and dashboards to optimize production engineering metrics, enabling key decision makers to compare the forecasted impact of workflow and labour composition changes
 - Served as the primary developer of a part inventory forecasting tool aiding in corporate entity synergy
- Lecturer (Economics)** Sep 2022 - Present
University of Saskatchewan *Saskatoon, SK*
- Nominated for the Undergraduate Student Society Teaching Excellence Award
 - Achieved a 100% satisfaction rate on "Overall Teaching Effectiveness" in the course "Introduction to Empirical Economics," with 46% of students rating my teaching effectiveness amongst the top 5% of university instructors
- Research Assistant (Economics)** Dec 2021 - May 2022
University of Toronto *Toronto, ON*
- Built supervised and unsupervised web-scraping NLP models to quantify amenity preference sentiment amongst labour force actors which were presented at ASSA 2022
- Teaching Assistant (Economics)** Aug 2021 – May 2022
University of Toronto *Toronto, ON*
- Led students in "Data Tools for Economists" and "Introduction to Data Analysis and Applied Econometrics"
 - Obtained a 96% satisfaction rate in tutorial sessions for students learning data manipulation/analysis techniques
- Development and Database Manager (BI and Automation)** May - Sep 2020, May - Aug 2021
Affinity Credit Union *Saskatoon, SK*
- Led a data analysis project regarding reporting server standards and create tangible reports regarding data usage
 - Enhanced membership reports and ETL processes aiding in back-office analysis and improved front-line efficiency
- Intern Market Analyst (Member Experience)** Jan 2020 - Apr 2020
Affinity Credit Union *Saskatoon, SK*
- Built a decision tree model to predict consumer product tendencies based on thousands of biographic data points
- Research Assistant (Computer Science)** May 2019 - Sep 2019
University of Saskatchewan *Saskatoon, SK*
- Aided in implementing and testing machine learning solutions for 'semantic code clone' detection research

EDUCATION

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- University of Toronto** Aug 2021 - May 2022
Master of Economics *Toronto, ON*
- Relevant Coursework: Economic Applications of Machine Learning (A+), Statistical Methods for Machine Learning and Data Mining (A), Econometrics (A-)
- University of Saskatchewan** Sept 2017 - May 2021
Double Honours Bachelor in Economics and Computer Science *Saskatoon, SK*
- cGPA: 3.87
 - Awards: Lewis C. Gray Prize in Economics, Popoff Scholarship in Economics, Dean's Honour List, University of Saskatchewan Continuing Scholarship, NSERC Undergraduate Research Award, Greystone Entrance Award
 - Relevant Coursework: Introduction to Empirical Economics (100%), Deep Learning (87%), Machines & Algorithms (94%), Simulation Principles (91%)

TECHNICAL SKILLS

Skills: Machine Learning, Simulation, Econometric Analysis, Research Techniques, A/B Testing, Web Scraping
Programming Languages: Python, SQL, R, Stata, C, Java, Scala, VBA, JavaScript, C++
Libraries: TensorFlow, Scikit-learn, Pytorch, Pandas, Selenium, Gensim, NLTK
Programs: Power BI, Anylogic, Weka, SQL Server, Jupyter, Git, iGrafx, Salesforce, Snowflake
Hobbies: Golf, Hockey, Chess, Freelance Web-Development